

One Month

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The Map Method

Bonus · Lesson 2 ·

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Lesson Notes

Discussion (9)

Let's review `forEach` and compare it to `Map`. These are both great tools for looping through data. `forEach()` executes a provided function once for each array element while `map()` creates a new array with the results of calling a provided function on every element in the calling array. They both do almost the same thing, but the major difference is that `forEach()` affects and changes our original Array, whereas `map()` returns an entirely new Array—thus leaving the original array unchanged.

```
<!DOCTYPE html>
<html>
<head>
  <title>The Map Method</title>

  <style type="text/css">

    body {
      background: #87CEFA;
    }

  </style>

</head>
<body>

<script type="text/javascript">

//FOR EACH - loops through data, executes once per array element

//cities examples
var cities = ["NYC", "Paris", "Berlin"];
cities.forEach(function(city){
  console.log(city);
});

//people example
var people = [{name:"Chris", location:"NYC"}, {name:"Mattar

people.forEach(function(person){
  console.log(person.name);
});

//MAP - loops through data, creates a new array

var numbers = [1,4,9];
var doubles = numbers.map(function(num){
  return num * 2;
});

console.log(doubles);
```

```
//people example
var people = [{name:"Chris", location:"NYC"}, {name:"Mattar"}];

var names = people.map(function(person){
    return person.name;
});

console.log(names);

</script>
</body>
</html>
```

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